

We claim:

1. A fluid processing system comprising  
a fluid circuit including an inlet and an outlet, and  
a connector assembly constructed for coupling to a fluid source, the connector assembly  
including a first fluid passage coupled to the outlet of the fluid circuit and a second fluid  
passage that does not communicate with the first fluid passage and is coupled to the inlet  
of the fluid circuit, whereby fluid can be circulated by the connector assembly through  
the fluid source in a loop that includes the fluid circuit to collect in the fluid source air  
residing in the fluid circuit; wherein the fluid circuit includes a blood processing element.
2. The system of claim 1, wherein the blood processing element includes a filter.
3. The system of claim 2, wherein said filter includes a hemofilter to remove toxins from  
blood.
4. A system according to claim 1  
wherein the fluid circuit comprises at least a portion of a hemofiltration system.
5. A system according to claim 1  
wherein the fluid circuit comprises at least a portion of a hemodialysis system.
6. A system according to claim 1  
wherein the fluid source includes a container and the connector assembly is releasably  
coupled to the fluid container which are preconnected and sterilized as a unit.
7. A system according to claim 1  
wherein the fluid circuit forms at least a portion of a dialysis system.

8. A fluid processing apparatus comprising  
a fluid container , and  
a connector assembly coupled to the fluid container, the connector assembly including a first fluid passage releasably coupled by a luer connector to an outlet of a fluid circuit and a second fluid passage that does not communicate with the first fluid passage and releasably coupled by a luer connector to a inlet of the fluid circuit, whereby fluid can be circulated by the connector assembly through the fluid container in a loop that includes the fluid circuit to collect in the fluid source air residing in the fluid circuit.

8. An apparatus according to claim 7  
wherein the apparatus comprises at least a portion of a blood processing system.

10. An apparatus according to claim 7  
wherein the apparatus comprises at least a portion of a hemofiltration system.

11. An apparatus according to claim 7  
wherein the fluid container is preconnected to the fluid circuit by said connector assembly and sterilized to form a disposable kit.

12. An apparatus according to claim 7  
wherein the apparatus forms at least a portion of a hemodiafiltration system.

13. An apparatus according to claim 7  
wherein the apparatus forms at least a portion of a dialysis system.